**Earth Science Earth Chemistry (Chapter 4 Outline)**

***AS YOU READ, RESPOND TO THE FOLLOWING:***

*Vocabulary*: **Define in your own words**

Matter-

Element-

Atom-

Isotope-

Compound-

Molecule-

Ion-

Mixture-

Solution-

Ionic bond-

Covalent bond-

*Respond to the following:*

Compare and contrast chemical properties and physical properties of matter. Give an example of 2 chemical properties and 2 physical properties of matter. (6 pts)

Compare atomic number, mass number, and atomic mass. How are they similar and different? Be specific. (3 pt)

How is the periodic table arranged? Be specific in your response. (1 pt)

What does a chemical formula tell you about a substance? Explain. (2 pts)

***ABOUT THE READING:***

Write three things that you learned about Earth Chemistry*:*

***Make sure to write a full sentence.***

*Example: I learned that the term mass refers to the amount of matter in an object.*

*1.*

*2.*

*3.*

***Assigned work****:*

*Choose one of the eight most common elements in Earth's crust and write a brief report on the element's atomic structure, its chemical and physical properties, and its economic importance. Also, draw a Lewis Dot diagram of the element on this page. (6 pts)*